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**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
POLLUTION REPORT**

**I. HEADING**

**DATE:** January 23, 2002

**SUBJECT:** **POLREP for the Multiple Deposition Sites, East St. Louis, St. Clair County, Illinois**

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**POLREP #:** POLREP #1/Initial - Fund Lead Removal

**II. BACKGROUND**

Response Authority:	CERCLA Removal	State Notification:	09-27-01
NPL Status:	Non-NPL	Status of Action Memorandum:	signed 09-27-01
Location:	Various Locations	Start Date:	01-07-02
Completion Date:	NA		

**III. SITE INFORMATION**

**A. Incident Category**

Various residential soil removal

**B. Site Description**

E582

## **1. Site location**

The Multi-Deposition Sites are located throughout the City of East St. Louis, St. Clair County, Illinois. The various locations have been referred to the U.S. EPA through many avenues including the Illinois Department of Public Health (IDPH). Many of the referrals are as individual homes and have potentially large areas with widespread presence of lead contaminated soil. The Multiple Deposition Site locations are in primarily residential areas.

## **2. Description of threat**

East St. Louis, St. Clair County, Illinois has potentially large number of sites which contains lead contaminated soils. The U.S. Environmental Protection Agency (U.S. EPA) and IDPH found elevated levels of lead in soil widespread throughout the area, with most of these referred locations above the U.S. EPA Site specific action level of 400 parts per million (ppm) for residential land use.

The elevated levels of lead are found at the surface in the soil at residential neighborhoods. The exposure pathway can be by direct contact with the contaminated soil and inhalation of airborne contaminants through wind blown particulate matter. These various locations are in close proximity to schools, day care centers, churches and other businesses. These elevated lead levels may potentially expose young children, pregnant women and elderly individuals to lead contamination.

## **3. Preliminary Assessment/Site Inspection Results**

During sampling activities, the U.S. EPA and IDPH found lead contaminated soils throughout East St. Louis area. Lead was found widespread throughout the Sites, and within the surrounding the neighborhoods with most of the area above the U.S. EPA Site specific residential action level of 400 ppm.

## **IV. SITE INFORMATION**

### **A. Situation**

#### **1. Response activities to date**

Work began on the Site in January 7, 2002 with the following:

- START member characterized areas with the X-ray fluorescence (XRF) spectrometer. Screening revealed areas above the U.S. EPA residential action level of 400 mg/kg for lead;
- Although the lead levels often exceed the Site specific action level, the toxicity

characteristic leaching procedure (TCLP) analysis from the Site assessment was well below the regulatory level of 5 mg/L. Therefore, excavated soils hauled from the Site are being considered low level lead contaminated soil;

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**2. Removal activities to date:**

- Site project proceeded at the residential area;
- Access agreements are signed in advance for the properties that need to be excavated;
- While screening, some residential areas were found to have lead levels above the EPA Site specific residential action level. These elevated soils are then removed and disposed of off site;
- A total of 1,099 tons of low level lead contaminated soil was hauled from the various residential properties;
- Clean backfill has been placed in excavated areas. The properties were then graded, seeded and restored back to it's original configuration. Thus far 744 tons of clean backfill has been placed on the various residential properties;

**3. Enforcement:**

Enforcement/Cost recovery actions are pending.

**B. Planned Removal Activities**

- Transport low level lead contaminated soil off-site for disposal.

**C. Next Steps**

- Secure access, excavate residential properties, and backfill excavated areas with clean fill.

**D. Key Issues**

- Securing access from residential home owners;
- Adverse weather conditions may delay future site activities.

**V. COSTS**

	<u>Cost to date</u>	<u>Ceiling</u>	<u>% Remaining</u>
ERRS	\$ 44,597	\$ 226,154	% 80
START	\$ 3,500	\$ 15,765	% 78
EPA	<u>\$ 1,300</u>	<u>\$ 7,500</u>	<u>% 83</u>
<b>TOTAL</b>	<b>\$49,397</b>	<b>\$249,419</b>	<b>% 80</b>

The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor. Other financial data, which the OSC must rely upon, may not be entirely up to date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

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## VI. DISPOSITION OF WASTES

Wastestream	Medium	Quantity	Transportation	Treatment	Disposal
Lead	Soil	1,099.8 Tons	Truck	NA	Landfill